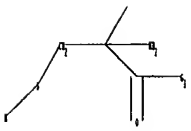
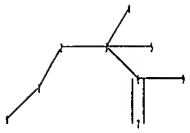




chain nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
1-2 1-8 2-3 3-4 3-5 3-6 6-7 6-9
exact/norm bonds :
3-5 6-7 6-9
exact bonds :
1-2 1-8 2-3 3-4 3-6

G1:OH,NH2

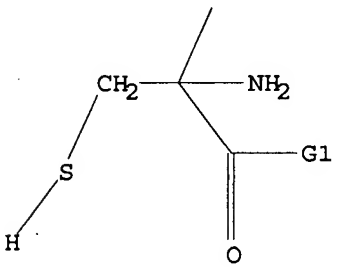
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom

L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

=> d L1
L1 HAS NO ANSWERS
L1 STR



G1 OH,NH2

Structure attributes must be viewed using STN Express query preparation.

=> s L1 full
FULL SEARCH INITIATED 15:21:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 4101 TO ITERATE

100.0% PROCESSED 4101 ITERATIONS 31 ANSWERS
SEARCH TIME: 00.00.01

L3 31 SEA SSS FUL L1

=> s chiral
L4 69 CHIRAL

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 177.05 177.26

FILE 'CAPLUS' ENTERED AT 15:22:11 ON 08 AUG 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 8 Aug 2007 VOL 147 ISS 7
FILE LAST UPDATED: 7 Aug 2007 (20070807/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> s L3

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L5          72 L3

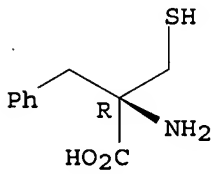
=> s chiral
        117182 CHIRAL
            16 CHIRALS
L6      117186 CHIRAL
                  (CHIRAL OR CHIRALS)

=> s L5 and L6
L7           6 L5 AND L6

=> d L7 1-6 bib abs hitstr

L7   ANSWER 1 OF 6  CAPLUS  COPYRIGHT 2007 ACS on STN
AN   2006:959201  CAPLUS
DN   145:489527
TI   Enantioselective Synthesis of (R)- and (S)-α-Alkylcysteines via
     Phase-Transfer Catalytic Alkylation
AU   Kim, Taek-Soo; Lee, Yeon-Ju; Jeong, Byeong-Seon; Park, Hyeung-Geun; Jew,
     Sang-Sup
CS   Research Institute of Pharmaceutical Science and College of Pharmacy,
     Seoul National University, Seoul, 151-742, S. Korea
SO   Journal of Organic Chemistry (2006), 71(21), 8276-8278
     CODEN: JOCEAH; ISSN: 0022-3263
PB   American Chemical Society
DT   Journal
LA   English
OS   CASREACT 145:489527
AB   We reported efficient enantioselective synthetic methodologies for
     (R)-α-alkylcysteines and (S)-α-alkylcysteines.  The
     phase-transfer catalytic alkylation of 2-phenyl-2-thiazoline-4-carboxylic
     acid tert-Bu ester and 2-o-biphenyl-2-thiazoline-4-carboxylic acid tert-Bu
     ester, in the presence of chiral catalysts, gave the
     corresponding alkylated products, which could be hydrolyzed to provide
     (R)-α-alkylcysteines (67->99% ee) and (S)-α-alkylcysteines
     (66-88% ee), resp.
IT   451496-27-8P
     RL: SPN (Synthetic preparation); PREP (Preparation)
        (enantioselective synthesis of (R)- and (S)-α-alkylcysteines via
        phase-transfer catalytic alkylation)
RN   451496-27-8  CAPLUS
CN   D-Phenylalanine, α-(mercaptomethyl)-  (9CI)  (CA INDEX NAME)

Absolute stereochemistry.
```

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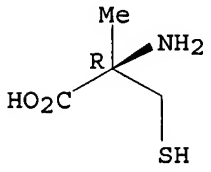
RE.CNT  22    THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7   ANSWER 2 OF 6  CAPLUS  COPYRIGHT 2007 ACS on STN
AN   2006:505921  CAPLUS
DN   146:442041
TI   Synthetic studies on halipeptins, antiinflammatory cyclodepsipeptides
AU   Hara, Sousuke; Makino, Kazuishi; Hamada, Yasumasa
CS   Graduate School of Pharmaceutical Sciences, Chiba University, Yayoi-cho,
     Inage-ku, Chiba, 263-8522, Japan
SO   Peptide Science (2006), Volume Date 2005, 42nd, 39-42
     CODEN: PSCIFQ; ISSN: 1344-7661
```

PB Japanese Peptide Society
DT Journal
LA English
AB The total synthesis of marine-derived cyclodepsipeptide halipeptin A has been achieved. The key reactions for construction of the stereo-centers involve proline-catalyzed enantioselective oxy-amination and asym. aldol reaction using chiral oxazaborolidinone reagent. For assembly of the cyclodepsipeptide skeleton, BMTB method, acid chloride method and HATU method were utilized.
IT 148766-37-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of halipeptins antiinflammatory cyclodepsipeptides via proline-catalyzed enantioselective oxy-amination and asym. aldol reaction using chiral oxazaborolidinone reagent)
RN 148766-37-4 CAPLUS
CN L-Cysteine, 2-methyl-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



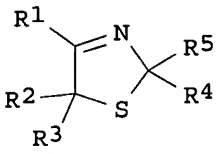
● HCl

RE.CNT 9 THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:588917 CAPLUS
DN 143:115793
TI Process for preparation of chiral mercaptoamino acids via thiazolines.
IN Kotthaus, Martina; Mayrhofer, Herbert; Rogl, Christian; Krich, Sylvia; Simetzberger, Michael
PA DSM Fine Chemicals Austria Nfg G.m.b.H. & Co K.-G., Austria
SO PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005061469	A1	20050707	WO 2004-EP12919	20041115
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	EP 1692120	A1	20060823	EP 2004-797894	20041115
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, IS				
	US 2007112216	A1	20070517	US 2006-581790	20060606

PRAI AT 2003-1968 A 20031209
WO 2004-EP12919 W 20041115
OS CASREACT 143:115793; MARPAT 143:115793
GI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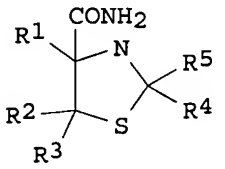
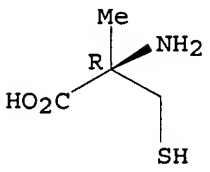

II

AB HSCR3R2CR1(NH2)CO2H [R1-R3 = H, aryl, alkylaryl, aralkyl, alkyl, alkenyl; R2R3 = atoms to form an (unsatd.) ring], were prepared by reaction of R1COCR2R3X (R1-R3 as above; X = Cl, Br, iodo, triflate, acetate, sulfonate) with (aqueous) NH3, a sulfide, and R4COR5 [R4, R5 = H, alkyl, aryl; R4R5 = atoms to form a (substituted) ring] to give thiazolines (I; variables as above) followed by addition of HCN and selective hydrolysis with mineral acid to give thiazolidinecarboxamides (II; variables as above). II may then be treated with an amidase or a chiral acid to afford chiral II followed by treatment with acid to afford the title mercaptoamino acids. Alternatively, racemic II may be treated with acid followed by conversion to the desired chiral mercaptoamino acids. Chiral α-methylcysteine hydrochloride was prepared by the claimed method.
IT 148766-37-4P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(preparation of chiral mercaptoamino acids via thiazolines)
RN 148766-37-4 CAPLUS
CN L-Cysteine, 2-methyl-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.




HCl

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

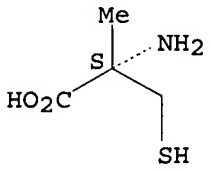
L7 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:287739 CAPLUS
DN 143:460393
TI Asymmetric synthesis of (R)- and (S)-α-methylcysteine
AU Singh, Satendra
CS BACHEM Bioscience Inc., King of Prussia, PA, 19406, USA
SO Recent Research Developments in Organic Chemistry (2004), 8(Pt. 2), 323-339
CODEN: RDOCFJ
PB Transworld Research Network
DT Journal; General Review
LA English
AB A review. α-Methylcysteine is an important amino acid, which is

used to confer conformational constraints, extend biol. half-life, and avoid racemization. Due to the labile nature of the sulfhydryl group, asym. synthesis of α-methylcysteine has been rather challenging. There are mainly five strategies for synthesizing α-methylcysteine: (1) thiolation of bromomethyl bislactim ether, (2) regioselective ring opening of chiral aziridine or β-lactone with thiolate nucleophile, (3) utilization of Seebach's "self-regeneration of chirality" approach to thiomethylate oxazolidinone derived from alanine or methylate thiazolidine derivative of cysteine, (4) enzymic resolution, and (5) use of camphorsultam chiral auxiliary to direct methylation of thiazoline. Stereochem. of each synthesis is discussed.

IT 239101-34-9P 441317-73-3P
RL: BPN (Biosynthetic preparation); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(asym. synthesis of (R)- and (S)-methylcysteine via five strategies)

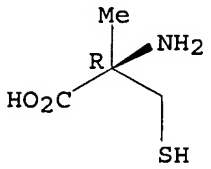
RN 239101-34-9 CAPLUS
CN D-Cysteine, 2-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 441317-73-3 CAPLUS
CN L-Cysteine, 2-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2005:260016 CAPLUS
DN 142:336046
TI Process for the preparation of optically active 2-amino-3-mercapto-2-methyl-propionic acid compounds
IN Matsumoto, Shingo; Murao, Hiroshi; Yamaguchi, Takao; Izumida, Masashi; Ueda, Yasuyoshi
PA Kaneka Corporation, Japan
SO PCT Int. Appl., 69 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2005026110	A1	20050324	WO 2004-JP12157	20040818

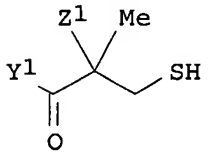
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,

TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

	EP 1666458	A1	20060607	EP 2004-772118	20040818
	US 2007010689	A1	20070111	US 2006-570791	20060913
PRAI	JP 2003-317402	A	20030909		
	WO 2004-JP12157	W	20040818		

OS MARPAT 142:336046

GI



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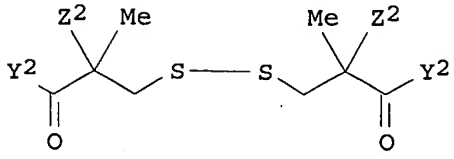


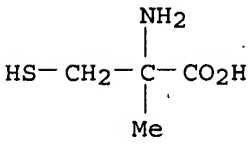
II

AB Process for the preparation of optically active 2-amino-3-mercapto-2-methylpropionic acid derivs. I [Y1 = OH, (un)substituted amino; Z1 = (un)substituted amino; further detail on Y1, Z1 is given.] or a salt thereof is characterized in that optically active compds. II [Y2 = OH, (un)substituted amino; Z2 = (un)substituted amino; further detail on Y2, Z2 is given.] are used as intermediates and the sulfur-sulfur bond of optically active compds. II [Y2 = OH, (un)substituted amino; Z2 = (un)substituted amino; further detail on Y2, Z2 is given.] is reductively cleaved to give the corresponding optically active 2-amino-3-mercapto-2-methylpropionic acid derivs. For example, a mixture of (5s,5'S)-5,5'-[dithiobis(methylene)]bis(5-methylhydantoin) (5.9 g), e.g., prepared from racemic 5-tert-butylthiomethyl-5-methylhydantoin in 5 steps, triphenylphosphine (6.4 g), toluene (50.0 g), water (15.5 g) and concentrate HCl (6.4 g) was stirred at 80 °C for 24 h. The reaction mixture was treated with 30% aqueous NaOH to pH 9.0, then washed with toluene. The aqueous solution was adjusted to pH 2.8 with concentrate HCl to afford D-5-mercaptomethyl-5-methylhydantoin (5.3 g) in 99.6 area % purity.

IT 22681-73-8DP, derivs., optically active
RL: PEP (Physical, engineering or chemical process); PUR (Purification or recovery); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(claimed compound; preparation of optically active 2-amino-3-mercapto-2-methyl-propionic acid compds. via reductive cleavage of disulfide fragment in chiral 3,3'-dithiobis(2-amino-2-methylpropionic acid) derivs.)

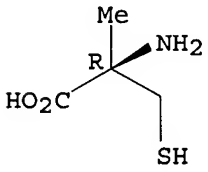
RN 22681-73-8 CAPLUS

CN Cysteine, 2-methyl- (8CI, 9CI) (CA INDEX NAME)



IT 148766-37-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of L-2-amino-3-mercapto-2-methylpropionic acid hydrochloride from L-2-amino-3-tert-butylthio-2-methylpropionic acid using hydrochloride)
RN 148766-37-4 CAPLUS
CN L-Cysteine, 2-methyl-, hydrochloride (9CI) (CA INDEX NAME)

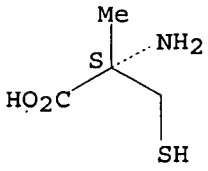
Absolute stereochemistry.



● HCl

IT 151062-55-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(reduction of (2S,2'S)-3,3'-dithiobis(2-amino-2-methylpropionic acid) to D-2-amino-3-mercapto-2-methylpropionic acid using triphenylphosphine)
RN 151062-55-4 CAPLUS
CN D-Cysteine, 2-methyl-, hydrochloride (1:1) (CA INDEX NAME)

Absolute stereochemistry.

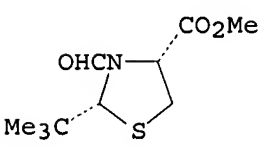


● HCl

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1993:473043 CAPLUS
DN 119:73043
TI Enantioselective synthesis of 2-alkyl substituted cysteines
AU Pattenden, Gerald; Thom, Stephen M.; Jones, Martin F.
CS Dep. Chem., Univ. Nottingham, Nottingham, NG7 2RD, UK
SO Tetrahedron (1993), 49(10), 2131-8
CODEN: TETRAB; ISSN: 0040-4020

DT Journal
LA English
OS CASREACT 119:73043
GI



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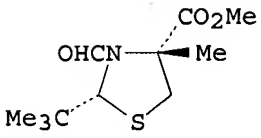
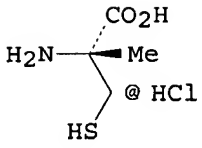


II



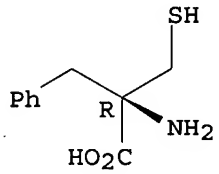
III

AB Treatment of (R)-cysteine-derived thiazolidine derivative I with LDA-DMPU at -90°, followed by alkylation with MeI gave methylated thiazolidine II containing the Me and tert-Bu groups virtually exclusively anti to one another. Hydrolysis of II by 5M HCl gave (R)-2-methylcysteine hydrochloride (III) in excellent yield and enantiomeric purity. A range of other 2-alkyl substituted cysteines of excellent optical purity are prepared by this modification of Seebach's "self-reproduction of chirality" protocol.

IT 148692-23-3P 148692-24-4P 148766-37-4P
RL: RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(enantioselective synthesis of)

RN 148692-23-3 CAPLUS
CN D-Phenylalanine, α-(mercaptomethyl)-, hydrochloride (9CI) (CA INDEX NAME)

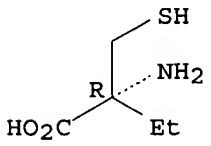
Absolute stereochemistry.



● HCl

RN 148692-24-4 CAPLUS
CN Butanoic acid, 2-amino-2-(mercaptomethyl)-, hydrochloride, (R)- (9CI) (CA INDEX NAME)

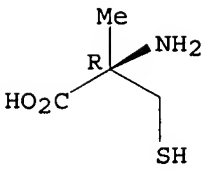
Absolute stereochemistry.



● HCl

RN 148766-37-4 CAPLUS
CN L-Cysteine, 2-methyl-, hydrochloride (9CI) (CA INDEX NAME)

Absolute stereochemistry.



● HCl

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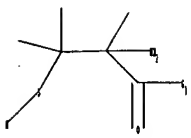
Executing the logoff script...

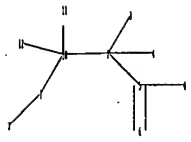
=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	34.10	211.36

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.68	-4.68

STN INTERNATIONAL LOGOFF AT 15:22:48 ON 08 AUG 2007





chain nodes :
1 2 3 4 5 6 7 8 10 11 12
chain bonds :
1-7 1-10 2-5 2-3 2-4 2-10 5-6 5-8 10-11 10-12
exact/norm bonds :
1-10 2-4 5-6 5-8
exact bonds :
1-7 2-5 2-3 2-10 10-11 10-12

G1:OH,NH2

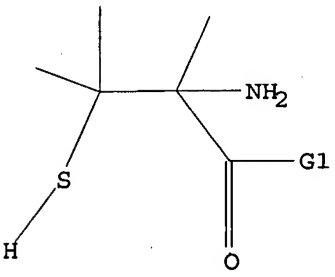
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 10:Atom 11:Atom
12:Atom

L1 STRUCTURE UPLOADED

=> que L1

L2   QUE L1

=> d L1
L1 HAS NO ANSWERS
L1   STR



G1 OH,NH2

Structure attributes must be viewed using STN Express query preparation.

=> s L1 full
FULL SEARCH INITIATED 15:30:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   3600 TO ITERATE

100.0% PROCESSED   3600 ITERATIONS   7 ANSWERS
SEARCH TIME: 00.00.01

L3   7 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                         ENTRY   SESSION
FULL ESTIMATED COST   172.10   172.31

FILE 'CAPLUS' ENTERED AT 15:30:59 ON 08 AUG 2007
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907 - 8 Aug 2007 VOL 147 ISS 7
FILE LAST UPDATED: 7 Aug 2007 (20070807/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/infopolicy.html

=> s L3
L4   2 L3

```
=> s chiral
        117182 CHIRAL
            16 CHIRALS
L5      117186 CHIRAL
                  (CHIRAL OR CHIRALS)

=> s L5 and L4
L6            0 L5 AND L4

=> s optically active
        102297 OPTICALLY
        992266 ACTIVE
          1229 ACTIVES
        992973 ACTIVE
                  (ACTIVE OR ACTIVES)
L7       39205 OPTICALLY ACTIVE
                  (OPTICALLY(W)ACTIVE)

=> s L7 and L4
L8            0 L7 AND L4

=> d L4 1-2 bib abs hitstr

L4   ANSWER 1 OF 2  CAPLUS  COPYRIGHT 2007 ACS on STN
AN   1984:570942  CAPLUS
DN   101:170942
TI   Studies related to thietan-2-ones.  Part 2.  Conversion of a
     benzylpenicillin-derived thietan-2-one into D- and L-2-
     methylpenicillamines
AU   Crilley, Martine M. L.; Stoodley, Richard J.
CS   Dep. Org. Chem., Univ. Newcastle upon Tyne, Newcastle upon Tyne, NE1 7RU,
     UK
SO   Journal of the Chemical Society, Perkin Transactions 1:  Organic and
     Bio-Organic Chemistry (1972-1999) (1984), (5), 1127-32
     CODEN: JCPRB4; ISSN: 0300-922X
DT   Journal
LA   English
GI
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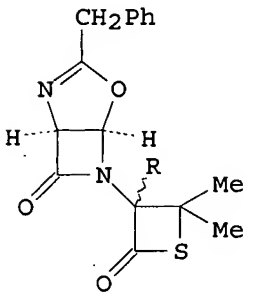
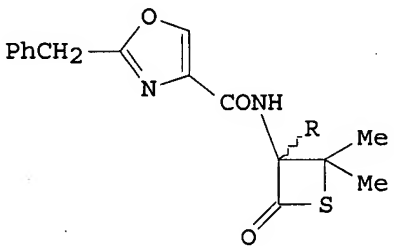
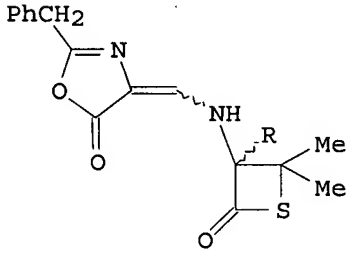


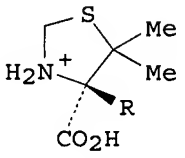
I

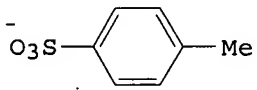


II



III





V

```
AB   Isomerization of the (3R)- and (3S)-benzylpenicillin-derived thietanones I
```

(R = β-, α-Me, resp.) with m-ClC6H4CO2H-MeOH gave the [(benzyloxazolylcarbonyl)amino]thietanones II (R as before), whereas isomerization in CH2Cl2 containing BF3 resulted in formation of the [(benzyloxooxazolinylidene)amino]thietanones III (R as before). Ozonolysis of III (R = β-, α-Me, resp.), followed by addition of EtOH, deformylation, addition of 4-MeC6H4SO3H, and hydrolysis gave D- (IV) and L-2-methylpenicillamine toluene-p-sulfonate, resp. D-Penicillamine toluene-p-sulfonate underwent thiazolidine formation with HCHO to give V (R = H) more rapidly than IV did to give V (R = Me).

IT 92462-78-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with formaldehyde, thiazolidine by)

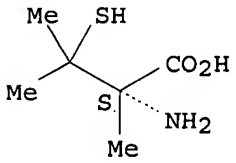
RN 92462-78-7 CAPLUS

CN D-Isovaline, 3-mercapto-3-methyl-, 4-methylbenzenesulfonate (salt) (9CI) (CA INDEX NAME)

CM 1

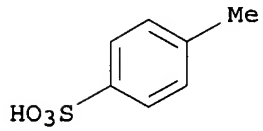
CRN 92462-77-6
CMF C6 H13 N O2 S

Absolute stereochemistry.



CM 2

CRN 104-15-4
CMF C7 H8 O3 S



IT 92462-82-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

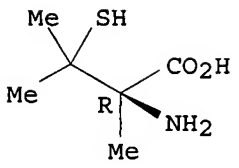
RN 92462-82-3 CAPLUS

CN L-Isovaline, 3-mercapto-3-methyl-, 4-methylbenzenesulfonate (salt) (9CI) (CA INDEX NAME)

CM 1

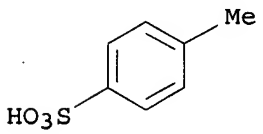
CRN 92462-81-2
CMF C6 H13 N O2 S

Absolute stereochemistry.

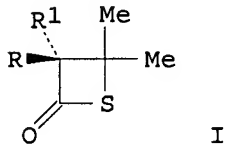


CM 2

CRN 104-15-4
CMF C7 H8 O3 S



L4 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1984:22300 CAPLUS
DN 100:22300
TI Studies related to thietan-2-ones. Part 1. Conversion of D-penicillamine into DL-2-methylpenicillamine using thietan-2-one-based chemistry
AU Al-Zaidi, Shakir M. R.; Crilley, Martine M. L.; Stoodley, Richard J.
CS Dep. Org. Chem., Univ. Newcastle upon Tyne, Newcastle upon Tyne, NE1 7RU, UK
SO Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1983), (9), 2259-65
CODEN: JCPRB4; ISSN: 0300-922X
DT Journal
LA English
GI



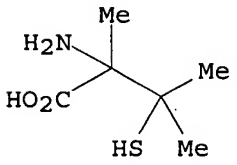
I

AB Intramol. cyclocondensation reaction of D-penicillamine followed by treatment with PCl5 in CH2Cl2 gave thietanone I (R = H, R1 = N+H3 Cl-), which underwent condensation reaction with PhCHO and 2-furaldehyde to give I [R = H, R1 = N:CR2 (R2 = Ph, 2-furyl) (II and III, resp.], resp. Methylation of II and III by MeI in THF containing Me3COK gave I (R ≠ R1 = Me, N:CR2, R2 as before), which underwent hydrolysis in the presence of 4-MeC6H4SO3H and HCl, resp., to give I [R ≠ R1 = Me, N+H3 X- (X = 4-MeC6H4SO3, Cl)] (IV and V), resp. Hydrolysis of IV and V in refluxing H2O gave Me2C(SH)CMe(CO2H)N+H3 X- (X as before).

IT 88168-75-6P 88168-76-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 88168-75-6 CAPLUS
CN Isovaline, 3-mercapto-3-methyl-, 4-methylbenzenesulfonate (salt) (9CI) (CA INDEX NAME)

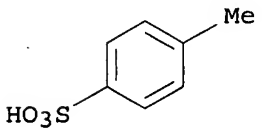
CM 1

CRN 88168-74-5
CMF C6 H13 N O2 S

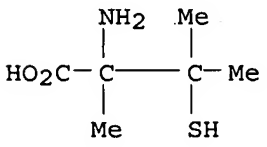


CM 2

CRN 104-15-4
CMF C7 H8 O3 S



RN 88168-76-7 CAPLUS
CN Isovaline, 3-mercapto-3-methyl-, hydrochloride (9CI) (CA INDEX NAME)



● HCl

=>

---Logging off of STN---

=>
Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	17.51	189.82
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.56	-1.56